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BOWDOIN COLLEGE BULLETIN

MEDICAL DEPARTMENT NUMBER

1913 1914

BRUNSWICK, MAINE
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JULY, 1913

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CATALOGUE

OF THE

MEDICAL SCHOOL OF MAINE

THE MEDICAL DEPARTMENT

OF

BOWDOIN COLLEGE

FOR THE NINETY-FOURTH YEAR

1913 1914

BRUNSWICK, - MAINE

PRINTED FOR THE COLLEGE, MDCCCCXIII

CALENDAR.

1913

16 October—Thursday. Entrance Examinations: for first year students at nine o'clock, A. M., in Brunswick.

17 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year, in Brunswick, in Anatomy, at eight o'clock A. M.; in Physiology at two o'clock, P. M.; in Chemistry at seven P. M.

18 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing for third year, in Portland, in Anatomy at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry at seven P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 17 and 18, at hours to be hereafter appointed.

Thanksgiving Recess from Wednesday, November 26, 1.30 P. M., to Monday, December 1, 8 A. M.

Recess from 11 A. M. Saturday, December 20, to Friday, January 2, 8 A. M.

1914.

22 February—Monday, Washington's Birthday. Holiday. No exercises.

Recess from noon Saturday, March 28, to Tuesday, April 7, 8 A. M.

30 May—Saturday, Memorial Day. Holiday. No exercises.

10 to 24 June—Examinations. Wednesday to Wednesday of second week.

24 June—Wednesday. Commencement.

Summer vacation of sixteen weeks.

FACULTY

Rev. WILLIAM DeWITT HYDE, D.D., LL.D., President.
85 Federal Street, Brunswick.

FRANKLIN CONANT PAYSON, LL.D., *from the Board of Trustees, Lecturer on Medical Jurisprudence.*
120 Exchange Street, Portland, Maine.

DANIEL ARTHUR ROBINSON, A.M., M.D., *from the Board of Overseers.* 140 Hammond Street, Bangor, Maine.

ERNEST BOYEN YOUNG, A.B., M.D., *from the Board of Overseers.* 434 Marlboro Street, Boston, Mass.

ADDISON SANFORD THAYER, A.B., M.D., Dean, *and Professor of Medicine.* 10 Deering Street, Portland.

FRANK NATHANIEL WHITTIER, A.M., M.D., *Professor of Pathology and Bacteriology, and* Deputy Dean *in Brunswick.*
161 Maine Street, Brunswick.

WALTER EATON TOBIE, M.D., *Professor of Anatomy, and* Secretary of the Faculty. 3 Deering Street, Portland.

ALFRED MITCHELL, M.D., LL.D., *Professsor Emeritus of Internal Medicine.* 163 Maine Street, Brunswick.

FREDERIC HENRY GERRISH, M.D., LL.D., *Professor Emeritus of Surgery and Professor of Medical Ethics.*
659 Congress Street, Portland.

CHARLES DENNISON SMITH, A.M., M.D., *Professor of Physiology.*
Maine General Hospital, Portland.

WILLIS BRYANT MOULTON, A.M., M.D., *Professor of Ophthalmology and Otology.* 180 State Street, Portland.

JOHN FRANKLIN THOMPSON, A.M., M.D., *Professor of Diseases of Women.* 211 State Street, Portland.

EDWARD JOSEPH McDONOUGH, A.B., M.D., *Professor of Obstetrics.* 52 Deering Street, Portland.

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673 Congress Street, Portland.

MARSHALL PERLEY CRAM, Ph.D., *Professor of Chemistry.*
83 Federal Street, Brunswick.

ALFRED KING, A.M., Sc.D., M.D., *Professor of Surgery.*
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Medical School of Maine

ALFRED MITCHELL, Jr., A.B., M.D., *Professor of Genito-Urinary Surgery.* 655 Congress Street, Portland.

GUSTAV ADOLF PUDOR, A.B., M.D., *Professor of Dermatology.* 134 Free Street, Portland.

EDVILLE GERHARDT ABBOTT, A.M., M.D., *Professor of Orthopedic Surgery.* 14 Deering Street, Portland.

GILMAN DAVIS, M.D., *Professor of Diseases of the Nose and Throat.* 655 Congress Street, Portland.

FRED PATERSON WEBSTER, A.B., M.D., *Professor of Pediatrics.* 12 Pine Street, Portland.

WILLIAM HERBERT BRADFORD, A.M., M.D., *Professor of Clinical Surgery.* 208 State Street, Portland.

HENRY WILLIAM MILLER, M.D., *Professor of Mental Diseases.* Maine Insane Hospital, Augusta.

HENRY DARENYDD EVANS, A.B., *Professor of Public Hygiene.* State Laboratory, Augusta.

HENRY MARSHALL SWIFT, A.B., M.D., *Professor of Neurology.* 655 Congress Street, Portland.

MANTON COPELAND, Ph.D., *Professor of Embryology and Histology.* 88 Federal Street, Brunswick.

JAMES EDWARD KEATING, A.B., M.D., *Assistant Professor* of *Medicine.* 599 Congress Street, Portland.

GILBERT MOLLESON ELLIOTT, A.M., M.D., *Assistant Professor and Demonstrator of Anatomy.* 152 Maine Street, Brunswick.

RICHARD DRESSER SMALL, A.B., M.D., *Assistant Professor of Obstetrics.* 154 High Street, Portland.

*AMBROSE HERBERT WEEKS, M.D., *Assistant Professor of Gastro-Enterology.* 30 Deering Street, Portland.

THOMAS JAYNE BURRAGE, A.M., M.D., *Assistant Professor of Clinical Medicine.* 139 Park Street, Portland.

NATHANIEL EDWARD LOOMIS, Ph.D., *Assistant Professor of Chemistry.* 24 College Street, Brunswick.

JOSEPH BLAKE DRUMMOND, A.B., M.D., *Assistant Professor of Anatomy.* 610 Congress Street, Portland.

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ARTHUR SCOTT GILSON, M.D., *Instructor in Clinical Surgery.* 117 State Street, Portland.

JAMES ALFRED SPALDING, A.M., M.D., *Clinical Instructor in Ophthamology and Otology.* 627 Congress Street, Portland.

WALTER DARWIN WILLIAMSON, M.D., *Instructor in Clinical Surgery.* 7 Deering Street, Portland.

*Deceased.

Faculty

CHARLES MILTON LEIGHTON, A.B., M.D., *Instructor in Clinical Surgery.* 365 Congress Street, Portland.

WILLIS BEAN MOULTON, A.B., M.D., *Instructor in Diseases of Women.* 622 Congress Street, Portland.

PHILIP PICKERING THOMPSON, A.B, M.D., *Instructor in Diseases of Women.* 704 Congress Street, Portland.

LOUIS ANDREW DERRY, A.B., M.D., *Instructor in Materia Medica, Pharmacology and Therapeutics.* 261 Congress Street, Portland.

WILLIAM WHEELER BOLSTER, A.B., M.D., *Instructor in Physiology.* 149 College Street, Lewiston.

EDWIN MOTLEY FULLER, Jr., A.B., M.D., *Instructor in Pathology and Bacteriology.* 918 Washington Street, Bath.

ALFRED OTTO GROSS, Ph.D., *Instructor in Histology and Embryology.* 25 Boody Street, Brunswick.

ERASTUS EUGENE HOLT, Jr., A.B., M.D., *Instructor in Anatomy.* 723 Congress Street, Portland.

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CARL MERRILL ROBINSON, A.B., M.D., *Assistant Demonstrator of Anatomy.* 332 Spring Street, Portland.

LEON STANLEY LIPPINCOTT, A.B., M.D., *Instructor in Physiology.* 254 Maine Street, Brunswick.

CARL HERVEY STEVENS, M.D., *Assistant Demonstrator of Anatomy.* 14 Main Street, Belfast.

WILLIAM MORAN, M.D., *Clinical Assistant in Diseases of the Eye.* Y.M.C.A. Building, Portland.

ALFRED WILLIAM HASKELL, M.D., *Clinical Assistant in Surgery.* 660 Congress Street, Portland.

ERNEST WOODBURY FILES, A.B., M.D., *Clinical Assistant in Surgery.* 552 Deering Avenue, Portland.

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FRANCIS WILSON LAMB, M.D., *Clinical Assistant in Orthopedics.* 156 Free Street, Portland.

ORAMEL ELISHA HANEY, M.D., *Clinical Assistant in Surgery.* 528 Deering Avenue, Portland.

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ROLAND BANKS MOORE, M.D., *Clinical Assistant in Pediatrics.* 678 Congress Street, Portland.

ALBION HART LITTLE, M.D., *Clinical Assistant in Diseases of the Eye and Ear.* 763 Congress Street, Portland.

Medical School of Maine

ERNEST BERTRAM FOLSOM, A.B., M.D., *Clinical Assistant in Medicine.* 77 Granite Street, Portland.

STANWOOD ELMER FISHER, M.D., *Clinical Assistant in Diseases of the Nose and Throat.* 190 State Street, Portland.

MILLARD CARROLL WEBBER, A.B., M.D., *Clinical Assistant in Diseases of the Eye*, AND SUPERINTENDENT OF THE DISPENSARY. 849 Congress Street, Portland.

HERBERT ELDRIDGE MILLIKEN, M.D., *Assistant in Medicine.* 181 State Street, Portland.

MERLON ARDEEN WEBBER, A.B., M.D., *Assistant in Surgery.* 359 Congress Street, Portland.

JAMES DONALD CLEMENT, M.D., *Assistant in Genito-Urinary Surgery.* 711 Congress Street, Portland.

ADAM PHILLIPS LEIGHTON, JR., M.D, *Assistant in Diseases of Women.* 192 State Street, Portland.

GEORGE THOMAS LITTLE, LITT.D., *Librarian.* 8 College Street, Brunswick.

Students in 1912-13

FOURTH YEAR

Name	Residence
Arey, Harold Carleton, A.B.	Camden
Coombs, Wyvern Almon	Vinalhaven
Gould, Carlisle Royal	Biddeford
Hanscom, Ridgeley Fernald	New London, Conn.
King, Elmer Henry, A.B.	Syracuse, N. Y.
Lippincott, Leon Stanley, A.B.	Augusta
McNeil, Harry Daniel	Bangor
Moulton, Albert Willis, A.B.	Portland
Roberts, Edward Russell	Portland
Ross, Harold Danforth	Phillips
Sullivan, Philip Sheridan	Biddeford
Trickey, Winfield Benjamin	East Corinth
Walker, Francis David	Waterville

THIRD YEAR

Name	Residence
Bickmore, Harold Vincent, A.B.	Augusta
Buck, William Edgar	Portland
Cartland, John Everett, A.B.	Lisbon Falls
Echols, Francis Sherman	Hartford, Conn.
Faulkingham, Ralph James	Waterville
Fogg, Charles Eugene	Portland
Gordon, Isaac Lewis	Lincoln
Hanson, Millard Parker	Bath
Johnson, George Harold	Augusta
Mikelsky, Benjamin Myer	Bath
Miller, Hudson Russell	Lewiston
Moulton, John Henry, A.B.	Limington
Perkins, Roy Stanley	Madbury, N. H.
Peters, Clinton Noyes, A.B.	Portland
Regan, Edward Francis	Marlboro, Mass.
Robinson, Harrison Leonard, A.B.	Bangor
Scribner, Herbert Charles	Bangor
Skillin, Waldo Thompson, A.B.	Hallowell
Sturtevant, James Melvin, A.B.	Dixfield
Weeks, DeForest, A.B.	Cornish
Williams, James Albert, A.B.	Topsham

Medical School of Maine

SECOND YEAR

Name	Residence
Anderson, William DeLue	Portland
Barrett, Ralph Lester	East Sumner
Blaisdell, Elton Randolph	Brunswick
Collins, Frank LaForest	Oakland
Dalrymple, Sidney Cullingwood	Medford, Mass.
Dennett, Carl George	Saco
Goddard, Claude Albert	Bethel
Hale, Herbert Francis, A.B.	New Sharon
Hamilton, Holland George	Brunswick
Hutchins, Eugene Leslie	No. New Portland
Johnson, Linwood Hill	Portland
Kinghorn, Charles Wesley	Yarmouthville
Lombard, Herbert Luther, A B.	Bridgton
McFarland, Lawrence, A.B.	Woodfords
Mansfield, Burleigh Burton	South Hope
Morrill, Berton Charles	Augusta
Nutter, Ralph Willis	Alfred
O'Connor, William John	Augusta
Oram, Julius Calvin, A.B.	Bristol
Parcher, Arthur Hale, A.B.	Ellsworth
Pillsbury, Nahum Roy	Biddeford
Pletts, Robert Cole	Brunswick
Smith, Frank Arthur, A.B.	Calais
Tibbetts, George Alton, A.B.	Brunswick
Woodcock, Allan, A.B.	Bangor

FIRST YEAR

Name	Residence
Belknap, Robert Willis, A.B.	Damariscotta
Clark, Raymond Willis	Franklin
Cummings, George Otis, A.B.	Portland
Driscoll, Cornelius James	Woodfords
Fernald, Clarence Joel, A.B.	Hebron
Ferris, Ferris William	Portland
Grant, Alton Levicount, Jr , A.B.	Lewiston
Hamilton, John Warren	Brattleboro, Vt.
Holmes, Percy Kendall, A.M.	East Stroudsbury, Penn.
Kupelian, Nessib Simon, A.B., B.D.	Tarsus, Turkey
MacIntire, Alfred Lucian, A.B.	Biddeford
Melaugh, William Birchman, A.B.	Portland

Students

Name	Residence
Moulton, Bryant Edward, A.B.	Portland
Richardson, Clyde Earle, A.B.	Brunswick
Twaddle, Gard Wilson	Bethel

SUMMARY

Fourth Year	13
Third Year	21
Second Year	25
First Year	15
Total	74

GRADUATES OF 1913

Harold Carleton Arey, A.B.	Camden
Wyvern Almon Coombs	Vinalhaven
Carlisle Royal Gould	Biddeford
Ridgeley Fernald Hanscom	New London, Conn.
Elmer Henry King, A.B.	Syracuse, N. Y.
Leon Stanley Lippincott, A.B.	Augusta
Harry Daniel McNeil	Bangor
Albert Willis Moulton, A.B.	Portland
Edward Russell Roberts	Portland
Harold Danforth Ross	Phillips
Philip Sheridan Sullivan	Biddeford
Winfield Benjamin Trickey	East Corinth
Francis David Walker	Waterville

Announcement.

The Medical School of Maine was established by the first Legislature of the State and was placed under the control of the Trustees and Overseers of Bowdoin College.

The course of instruction covers four years of thirty-six weeks each. The studies are distributed as follows:

First Year: Anatomy, Embryology, Histology, Physiology, Chemistry, Personal Hygiene.

Second Year: Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

Third Year: Medicine, Surgery, Clinical Pathology, Materia Medica and Pharmacology, Public Hygiene, Diseases of Women, Obstetrics, Diseases of the Eye, Ear, Nose, Throat, Skin, and Genito-Urinary System.

Fourth Year: Medicine, Surgery, Orthopedic Surgery, Therapeutics, Medical Jurisprudence, Medical Ethics, Diseases of Children, Neurology, and Mental Diseases, with clinical instruction in the studies of the third year.

The students of the first and second years are instructed at Brunswick, where the scientific departments of Bowdoin College contribute facilities for teaching the primary branches. The third and fourth year classes are taught in Portland on account of the clinical advantages afforded in that city.

As heretofore, the Maine General Hospital (140 beds) will furnish clinical opportunities. Other institutions in Portland, including the Maine Eye and Ear Infirmary, the City Hospital, the Children's Hospital, the Marine Hospital, the Portland Tuberculosis Class, the Female Orphan Asylum, the St. Elizabeth's Orphan Asylum, the Holy Innocents' Home, the Maine School for the Deaf and the Maine School for the Blind will continue to contribute to bedside instruction of the students. The Edward Mason Dispensary, a gift to Bowdoin College from

Mr. and Mrs. Hugh J. Chisholm, is increasing notably the facilities for clinical teaching.

The expenses of maintenance of this school are defrayed in greater part by the income from invested funds, especially from the Merritt-Garcelon bequest. A large number of students is neither expected nor desired. Modern methods in medical education demand individual instruction. The Boards of Bowdoin College and the teachers in the Medical School of Maine believe that the record of long and honorable service, which the school has secured, can be maintained best, if the number of students is small, and the standard of teaching is high.

The ninety-fourth annual course will begin on Thursday, the 16th of October, 1913, and will continue thirty-six weeks.

Examinations for admission to the school will be held at nine o'clock on the morning of the first day, Thursday, the 16th of October, in Brunswick.

Final examinations for each class will be held in the period from the 10th to the 24th of June, 1914, inclusive.

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick on Friday, the 17th of October. Examinations in anatomy at eight o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year will be held in Portland on Saturday, October 18th. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 17th and 18th, at hours to be hereafter appointed.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Secretary.

A student who fails to pass any branch at the required exam-

ination in June, may present himself for re-examination at the beginning of the next course. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he had previously failed to pass.

No student will be admitted to the privilege of conditions if he has failed in more than two departments.

An examination which is not complete receives no consideration.

The systematic course of instruction will begin on Monday morning, the 20th of October, 1913.

On arriving in Brunswick students should apply to the Deputy Dean, Dr. F. N. Whittier, enter their names, receive directions concerning their examinations, if any are needed, pay their fees, and be advised as to boarding places.

In Portland they should apply at the office in the medical building for the same purpose.

EXPENSES

For Instruction: In each of the required four years $100. This shall be paid promptly one-half at the opening of the course and the balance at the beginning of the second half of the course.

For Examinations: Payable at the close of the term of instruction,

In Anatomy	$5.00
In Physiology	5.00

In Chemistry 5.00
In Bacteriology and Pathology 5.00
In Obstetrics 5.00

These five fees are credited on the diploma or graduation fee.

For every re-examination in any of the departments in any year, $3.00. This fee is not credited on the diploma fee.

For examination or re-examination in any branch, at a time not regularly appointed, a fee of $5.00 must be paid in addition to the prescribed fee for that examination.

MISCELLANEOUS: The Matriculation fee of $5.00 is required of every student each year.

For materials used in the chemical laboratory courses, $3.00 for first course, $2.00 for second course, payable in advance.

For materials used in the physiological laboratory, $2.00 for first course, $1.00 for second course, payable in advance.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, $25. This will have been paid in the examination fees of the previous years.

ADMISSION

The requirement for admission is one year of study in a reputable college, in which time particular attention shall have been bestowed upon physics, chemistry, biology, and either French or German. It is advised that students take two years of college work along the same lines.

Students from other schools who apply for advanced standing must comply with the requirements for admission to the First year, must give satisfactory evidence that they have completed courses of instruction and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates stating that examinations have been passed in other schools are not accepted in lieu of examinations.

Time spent in pharmaceutical, dental and veterinary institutions does not entitle a student to examinations for advanced standing.

Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

GRADUATION

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular, incorporated medical institution, and the last course previous to examinations must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass satisfactory examinations in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean at least ten days before the beginning of the final examinations.

COURSES OF INSTRUCTION

ANATOMY

PROFESSOR TOBIE, ASSISTANT PROFESSORS ELLIOTT AND DRUMMOND AND DOCTORS HOLT, ROBINSON, LIPPINCOTT AND STEVENS

1. Systematic Anatomy. Lectures, demonstrations and recitations. Whole year: Tuesday, Friday, 9.30–10.30, except six weeks following the Easter vacation.

PROFESSOR TOBIE

2. Recitations. Gerrish's Text-Book. Tuesday, 8.15–9.15, until the Easter vacation.

ASSISTANT PROFESSOR DRUMMOND

3. Recitations. Gerrish's Text-Book. Friday, 8.15–9.15.

DOCTOR ROBINSON

4. Osteology and Arthrology. Recitations and student demonstrations from the dried specimens. Whole year: Thursday, 8.15–9.15 and 9.30–10.30, except six weeks following the Easter vacation. ASSISTANT PROFESSOR DRUMMOND

Courses 1, 2, 3, 4 cover osteology, arthrology, myology and splanchnology, the last including the central nervous system and special sense organs. Surface anatomy is studied on the living model and free use is made of dissected specimens, models and casts with which the Calvin Seavey museum is well supplied. Students are provided with disarticulated skeletons which remain in their possession throughout the year.

For First year students.

5. Practical Anatomy. Dissecting. Six weeks following the Easter vacation: six half-days a week.

PROFESSOR TOBIE, ASSISTANT PROFESSORS ELLIOTT AND DRUMMOND AND DOCTORS HOLT, ROBINSON, LIPPINCOTT AND STEVENS

One hundred and thirty-five hours are devoted to practical anatomy and at least one part of the cadaver is dissected.

For First year students.

6. Systematic and Applied Anatomy. Lectures, demonstrations and quizzes. Whole year: Tuesday, Friday, 8.15–9.15, except six weeks following the Easter vacation.

PROFESSOR TOBIE

This course includes systematic consideration of myology, angiology and neurology. Regional and applied anatomy are treated by lectures, quizzes and demonstrations, the last named involving the use of casts, recent and dried specimens and the living model.

7. Recitations. Gerrish's Text-Book. Myology, angiology, and neurology. Tuesday, 9.30–10.30, until the Easter vacation.

ASSISTANT PROFESSOR DRUMMOND

8. Recitations. Gerrish's Text-Book. Friday, 9.30–10.30.

DOCTOR ROBINSON

Courses 6, 7, 8 are for Second year students.

9. Dissecting. Six weeks following the Easter vacation: daily, 8.15–11.30 and 1.30–4.30.

PROFESSOR TOBIE, ASSISTANT PROFESSORS ELLIOTT AND DRUMMOND AND DOCTORS HOLT, ROBINSON, LIPPINCOTT, AND STEVENS

During the dissecting term students are required to dissect and demonstrate a complete lateral half of the cadaver. In recent years the abundant supply of dissecting material has enabled each student to dissect practically twice the required number of parts. Second year students are required to spend two hundred and seventy hours in the anatomical laboratory and this requirement also, is usually exceeded.

For Second year students.

CHEMISTRY

PROFESSOR CRAM AND ASSISTANT PROFESSOR LOOMIS

1. Analytical Chemistry. First half-year: Monday, Wednesday, Friday, 1.30–4.30.

This course assumes a knowledge of first year chemistry

which is required for entrance. The aim of the course is not so much to train analysts as to impart familiarity with chemical substances and principles. The work is mainly in the laboratory, the book used being Tower's Qualitative Chemical Analysis. Most of the time is devoted to qualitative analysis which is followed by a few exercises in quantitative.

For First year students.

2. Organic Chemistry. Second half-year; same hours, except that the Wednesday hours are omitted for the six weeks following the Easter vacation.

The course is given mainly by lectures with some laboratory work in the preparation of certain organic compounds. Attention is given to the important classes into which organic compounds are divided and to properties and reactions common to the whole class, rather than to specific compounds and special reactions. The compounds chosen to illustrate each class are as far as possible those of importance to the physician.

3 and 4. Physiological Chemistry. Whole year; Thursday, 8.30–12.30, except six weeks following the Easter vacation.

The book used is Hawk's Practical Physiological Chemistry. The work is mainly in the laboratory, supplemented by assigned readings and quizzes. This is followed by urinary analysis, the analysis of foods, detection of poisons, and the analysis of drugs and medicines.

First year men who have had satisfactory courses in analytical chemistry and organic chemistry, take the regular work in physiological chemistry with the Second year men their First year. In their Second year such men will be given an opportunity to do advanced individual work in the newer methods of urinary analysis and in research. Men desiring to be excused from either first year course should present certificates from previous instructors stating the rank which they have received.

The aim is to make the chemical courses as practical as possible. To this end the student is taught how to construct apparatus and prepare reageants as well as to use them. Particular attention is given also to the literature so that a man may become familiar with the standard works of reference in each department. For this the equipment of the Searles Science Building is fully adequate.

Each student is required to pay in advance at the office of the Deputy Dean a laboratory fee, covering the average cost of chemicals, gas and water. This is $3.00 for the First year and $2.00 for the Second year. In addition each will pay for apparatus broken or not returned at the end of the term.

DERMATOLOGY

PROFESSOR PUDOR

Didactic and clinical lectures. Dispensary. One hour a week. Clinic sections, one hour a week.

For Third year students.

DISEASES OF THE NOSE AND THROAT

PROFESSOR DAVIS

Didactic and clinical lectures. Dispensary. One hour a week. Clinic sections, one hour a week.

Special attention will be given to the anatomy of the parts, to diagnosis, and to the clinical study of the conditions which the general practitioner is most often called upon to treat. Clinical instruction will continue through the Fourth year.

For Third year students.

GENITO-URINARY SURGERY

PROFESSOR ALFRED MITCHELL, JR.

Didactic and clinical lectures. Dispensary. One hour a week. Clinic sections, one hour a week.

For Third year students.

GYNECOLOGY

PROFESSOR THOMPSON AND DOCTORS WILLIS BEAN MOULTON AND PHILIP P. THOMPSON

1. Lectures, quizzes, recitations and demonstrations. Whole year: Wednesday, 10.00. PROFESSOR THOMPSON

For Third year students.

2. Course in the examination of female patients. History-

taking, instruction in "Touch Examinations." Dispensary. Whole year: Monday, Thursday, 11.00.

Doctors W. Bean Moulton and Philip P. Thompson

For Fourth year students.

3. A course in the microscopical examination of fresh and prepared sections from gynecological cases. Twelve hours during the second half-year. Doctor W. Bean Moulton

For Fourth year students.

4. Gynecological operations at the Maine General Hospital of which notice is given.

HISTOLOGY AND EMBRYOLOGY

Professor Copeland and Doctor Gross

1. Histology. Text-book, lectures and laboratory exercises. First half-year: Monday, 8.30–11.30, Thursday, 1.30–4.30.

The elementary tissues are first studied, then the microscopic anatomy of the various organs of the human body. Some practice is provided in histological technic.

For First year students.

2. Embryology. Text-book, lectures and laboratory exercises. Second half-year: Monday, 10.30–12.30, Tuesday, 1.30–5.30.

This course serves as an introduction to vertebrate embryology with special reference to the human embryo. It treats of the reproductive cells, maturation, fertilization, cleavage, the formation of the germ layers, the development of the primitive segments, the formation of the fetal membranes and organogeny.

For First year students.

MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS

Professor Hunt and Doctor Derry

1. Pharmacology. First half-year: Monday, 9.00–10.00, Tuesday, 8.00–9.00.

This is a text-book course of thirty hours. It gives the

student a general idea of the action of the more important drugs.

For Third year students.

2. Laboratory Materia Medica and Pharmacology. First half-year: Monday, Thursday, 4.00–6.00.

This is a laboratory course of sixty hours. Early in the course are taken up Botany, Plant Chemistry, the manufacture of pharmaceutical preparations and the study of incompatibles. The last three-fourths of the course are devoted to experimental pharmaco-dynamics. The students perform experiments, either individually or in groups, on living animals. These experiments give the students a first-hand knowledge of the action of the more important drugs.

For Third year students.

3. Pharmacology and Therapeutics. Second half-year: Monday, 9.00–10.00, Tuesday, 8.00–9.00.

This is a lecture course of thirty hours. Instruction is by lectures and quizzes. The systematic study of drugs and other remedial agents and their application to the treatment of disease is begun.

For Third year students.

4. Continuation of Course 3. First half-year: Monday, Wednesday, 11.00–1.00.

This is a course of sixty hours.

For Fourth year students.

5. Therapeutics. Second half-year: Monday, Wednesday, 11.00–1.00.

This is a text-book course of sixty hours.

For Fourth year students.

The total number of hours of instruction in this department is 240.

MEDICAL ETHICS

Professor Gerrish

Medical Ethics. Second half-year: Saturday.

A course of lectures on the moral principles, which should control the conduct of the medical practitioner. The sections of the formal code of ethics are discussed and explained, special emphasis being laid upon those portions that most

need elucidation; and instruction is given upon various other matters concerning duty, on which the young physician particluarly needs advice and guidance.

For Fourth year students.

MEDICAL JURISPRUDENCE

LECTURER PAYSON

Medical Jurisprudence. Second half-year: Saturday.

The instruction in Medical Jurisprudence, in a course of lectures followed by an examination, will be directed mainly to an exposition of the legal duties and responsibilities of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

MEDICINE

PROFESSOR THAYER, ASSISTANT PROFESSORS KEATING AND BURRAGE, AND DOCTORS WELCH, FOLSOM AND MILLIKEN

1. A preliminary survey of the whole field of Practice of Medicine as covered in the text-book of Osler. Three hours a week. ASSISTANT PROFESSOR KEATING

2. Practical instruction in physical examinations. Sections. Dispensary. Six hours a week.
ASSISTANT PROFESSOR BURRAGE AND DOCTORS WELCH AND MILLIKEN

3. Clinical Diagnosis. Sections. City Hospital. Two hours a week. PROFESSOR THAYER

4. Tuberculosis clinic. Dispensary. Sections. Tuesday and Friday, 11.00–12.00. DOCTOR WELCH

Courses 1, 2, 3, 4 aim especially to teach a practical technic in the making of succinct case-histories, in the physical examination of patients, and in the laboratory study of blood, stomach-contents, faeces, urine and sputum.

For Third year students.

5. Bedside and laboratory study in wards. Maine General Hospital. Sections. Ten hours a week.

Assistant Professor Keating

6. Instruction in specially assigned topics. Case reports. Clinical conferences. Two hours a week.

Professor Thayer

7. Amphitheatre clinic. Tuesday, 9.00–11.00.

Professor Thayer

Courses 5 6, and 7 are intended to teach each student to sift his facts,—to correlate the subjective symptoms related by the patient with his own objective findings after examination,—and to reason soundly in the direction of prognosis and treatment.

For Fourth year students.

MENTAL DISEASES

Professor Miller

Lectures. Laboratory demonstrations. Clinics. Examinations of cases by individual students. Four entire Saturdays at the Maine Insane Hospital.

For Fourth year students.

NEUROLOGY

Professor Swift

Clinics. Lectures. Laboratory work. Recitations. Whole year, Tuesday, Friday, 5.00–6.00.

For Fourth year students.

OBSTETRICS

Professor McDonough, Assistant Professor Small, and Doctors Hatch and Everett

1. Lecture or Conference. Monday, Friday, 9.00–10.00.

Professor McDonough

2. Quiz. Tuesday, 9.00–10.00.

Assistant Professor Small

3. Section work on manikin. Hours to be assigned.

Doctor Everett

4. At Dispensary. Examinations of patients to determine position and pelvic measurements, and attendance on cases, under direction of Doctor Everett.

5. At Temporary Home. Attendance on cases, under direction of Doctor Hatch.

Arrangements have been made with the Boston Lying-In Hospital whereby students who have passed examination in obstetrics at end of Third year, will attend course of ten days or two weeks during summer or fall. If assignments come during school term, credit for attendance is allowed those absent in Boston. There is no added expense. Students must present certificates of attendance on at least six cases (the average number is ten) before presenting themselves for graduation.

OPHTHALMOLOGY AND OTOLOGY

Professor Willis Bryant Moulton and Doctors Moran, Little and M. C. Webber

1. Lecture and quiz course. Whole year: one hour a week.

2. Clinics. Maine General Hospital. Whole year: one hour a week during the year.

3. Clinics. Dispensary. Whole year: two hours a week.

4. Fourth year students will receive instruction in sections at the Eye and Ear Infirmary.

ORTHOPEDIC SURGERY

Professor Abbott and Doctors Pingree and Lamb

1. Didactic and clinical lectures. Children's Hospital. One hour a week.

2. Individual instruction in plaster-work, orthopedic dressings and studies in the use of the X-ray. Sections. Three hours a week.

For Fourth year students.

PATHOLOGY, BACTERIOLOGY AND HYGIENE

Professor Whittier and Doctors Fuller and Lippincott

1. Hygiene. Lectures and laboratory work. Second half-

year: Thursday, 1.30–4.30, Friday, 10.30–12.30, except six weeks following the Easter vacation.

This course occupies five hours a week for nine weeks. Eighteen of the hours are didactic and twenty-seven are laboratory work. Lectures are given on personal hygiene and include such subjects as exercise, ventilation, sources of food and water supply, first aid in emergency cases, effects of alcohol, and sex hygiene. The course is also designed to give an introduction to Bacteriology and includes introductory lectures on that subject. The laboratory work includes simpler bacteriological technic, microscopical examination of foods, practical experiments in disinfection and routine examinations of water and milk.

For First year students.

2. Bacteriology. Lectures and laboratory work. First half-year until Christmas vacation: Monday, Tuesday, Wednesday, Friday, 1.30–5.30.

This course occupies sixteen hours a week for nine weeks. Forty of the hours are didactic and one hundred and four are laboratory hours. Students are required to prepare most of the media and solutions used in this course. Each student is required to cultivate upon media twelve varieties of pathogenic bacteria and to study their characteristics. Animal inoculations and autopsies are performed by the students. Special attention is given to laboratory diagnosis of tuberculosis, diphtheria and typhoid fever.

For Second year students.

3. General Pathology, including Pathological Histology, also Pathology of the Blood. From Christmas vacation to the end of the year except six weeks following the Easter vacation: Monday, Tuesday, Wednesday, Friday, 1.30–5.30.

This course occupies sixteen hours a week for fifteen weeks. Sixty of the hours are didactic and devoted to qnizzes and lectures and one hundred and eighty are laboratory hours. McFarland's text-book is used as a basis for this course. The text-book is supplemented by lectures on special subjects. As far as possible the consideration of a subject in the classroom is followed by a study of the same subject in the laboratory. Much time is given before the Easter vacation to diagnosis work upon the microscopical preparations. The last

two weeks of the course are devoted largely to the study of the pathology of the blood and the technic of blood examinations. Students are trained in counting red and white corpuscles, in estimating amount of hemoglobin, in preparation and examination of stained specimens.

For Second year students.

4. Clinical Pathology. Practical work by assignment in the Portland hospitals and in the school laboratory. Also scheduled work in the school laboratory from the Easter vacation to the end of the year: Tuesday, 2.00–4.00, Wednesday, 2.00–4.00.

The scheduled course occupies four hours a week for nine weeks. Fifteen of the hours are didactic, and twenty-one are laboratory hours. The course in Clinical Pathology occupies at least eighty hours. Of these only thirty-six are scheduled.

Arrangements have been made with the Maine General Hospital, the Maine Eye and Ear Infirmary and Edward Mason Dispensary for Third year students to do pathological work in these institutions. Regular assignments are made and reports of work done required. By arrangement with the physicians in charge special attention is given to the clinical side of this work.

Instruction is given as opportunity occurs at surgical clinics and autopsies. In the work at the Medical School building each student examines microscopically tissues and other pathological material obtained at the Maine General Hospital, Maine Eye and Ear Infirmary, Children's Hospital and Edward Mason Dispensary. Whenever possible students are required to obtain material from the patients.

Students receive special training in the technic of preparing bacterial vaccines, also in performing the Wassermann test for syphilis.

For Third year students.

PEDIATRICS

Professor Webster and Doctor Moore

1. Recitations based on text-book, together with clinical demonstrations at the Children's Hospital. First half-year: Monday 5.00, Medical School; Wednesday, 10.00, Children's Hospital.

2. Recitations conducted by the case teaching method, em-

phasizing differential diagnosis and treatment. Second half-year: at the same hours.

3. Clinical instruction of small sections. Whole year: Tuesday, Thursday, Saturday, 11.00–1.00, Edward Mason Dispensary.

Infant care and feeding at the Portland Milk Station clinic.
Diseases and disorders of children at the Dispensary clinic.

4. Clinical instruction in acute diseases of childhood at the Children's Hospital and at the Female Orphan Asylum and in acute contagious diseases at the Portland Isolation Hospital. By appointment throughout the school year.

Courses 1, 2, 3, 4 are for Fourth year students.

PHYSIOLOGY

PROFESSOR SMITH AND DOCTORS BOLSTER AND LIPPINCOTT

1. Functions of Nutrition. First half-year: recitations and lectures until December 1; from December 1 to March 28, laboratory work twice weekly, 8.00–10.30. A total of 88 hours.

DOCTOR BOLSTER

This course will include the graphic study of Nerve-Muscle physiology; the physical and microscopical study of Blood; the phenomena and physics of Circulation, Respiration, Secretion, Excretion and Digestion; Metabolism and Animal Heat.

The laboratory is equipped with a set of Harvard apparatus sufficient for the use of the entire class in groups, each group having its own complete outfit. There is an ample equipment of demonstration and other apparatus and models.

There are frequent written reviews and quizzes and a final laboratory examination is held at the close of this course.

2. Continuation of Course 1. Recitations, supplementary lectures and demonstrations. Second half-year: Wednesday, Saturday, 8.15–10.30. PROFESSOR SMITH

Courses 1, 2 are for First year students.

3. Functions of Relation. Recitations and lectures with necessary demonstrations. From opening of year to March 28, twice weekly, 8.15–10.30.

The work includes the study of Reproduction, the Nervous System, the Physiology of Voice and Speech, the Special Senses, and the mechanics of the Muscular System. The equipment in models of the Nervous System and Special-Sense organs is ample for all demonstration work, and students will have opportunity for personal study of the models of the Nervous System which are of the latest design and of special excellence.

4. Laboratory demonstration exercises, in connection with the Nervous System and the Special Senses. This course will cover over 30 hours. January, February, March: Monday, 8.00–11.00. Professor Smith and Doctor Lippincott

Work in Physiology for the Second year students is suspended for the six weeks of the dissecting term and resumed for review recitations at its close.

Courses 3,4 are for Second year students.

Instruction in the department of Physiology will be conducted with particular reference to the practical application of the facts of human physiology to the needs of the student in his study of the diagnosis and treatment of disease.

A laboratory fee will be charged to defray the cost of material, which fee must be paid at the office of the Deputy Dean before beginning the laboratory course. This fee is $2.00 for the First year and $1.00 for the Second year. Students furnish at their own expense necessary instruments for nerve-muscle dissection, and are charged with the cost of loss and injury to apparatus.

PUBLIC HYGIENE

Professor Evans

Public Hygiene. First half-year: Tuesday, 2.45 to 4.45.

Principles of public sanitation. Source and character of public and private water supplies and the interpretation of the results of their analysis. Collection and disposal of waste sewage and garbage with reference to preventable diseases. Health boards, and their relation to the public. Study of the epidemiology of infectious disease.

SURGERY

Professors King, Brock and Bradford, and Doctors Twitchell, Gilson, Williamson, Leighton, Files, Haney and M. A. Webber.

1. General Surgery. Whole year: Wednesday, Friday, Saturday, 8.00–9.00.

There will be special instruction in bandaging, surgical technic, the administration of anaesthetics, the use of surgical instruments, the principles of surgery, general surgery, fractures, dislocations and hernias. This will enable stuents to enter upon their fourth year with a comprehensive view of surgery.

For Third year students.

2. Clinical General Surgery. Whole year: Maine General Hospital, Thursday, 10.00; Mason Dispensary, Monday, 12.00–1.00.

The clinic at the Maine General Hospital will be given by a member of the visiting staff. The clinical instruction at the Mason Dispensary will be given by the professor of surgery.

For Third year students.

3. Special Surgery. Whole year: Monday, Tuesday, 9.00-10.00, Thursday, 5.00–6.00.

There will be instruction in the special surgery of the various organs and tissues of the body, except those taught in special departments.

For Fourth year students.

4. Clinical Special Surgery. Whole year: Ward visits in sections at the Maine General Hospital, Monday, Tuesday, Thursday, Saturday, 11.00–1.00. Operations in the amphitheatre. Operations by students on the cadaver.

Students will be notified by telephone of accident cases brought to the Hospital. They will also be afforded opportunities by the surgical staff of the Mason Dispensary of observing and assisting in the care of cases in their daily service. The surgical clinical advantages of the City Hospital, Marine Hospital and other institutions in Portland will be utilized. While a large amount of surgical clinical material is available, it is the purpose of the School to use it in a way to strengthen and not lead to the neglect of other and essential studies.

For Fourth year students.

SCHEDULE FOR FIRST YEAR

A. M.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30	*Histology	*Anatomy ȣAnatomy	Physiology	*Osteology ‡Anatomy ȣAnatomy	ȣAnatomy	Physiology
9.30	*Histology	*‡Anatomy ȣAnatomy	Physiology	*Osteology ‡Anatomy ȣAnatomy	*‡Anatomy ȣAnatomy	Physiology
10.30	*Histology †Embryology	ȣAnatomy		ȣAnatomy	‡Hygiene ȣAnatomy	
11.30	*Embryology				‡Hygiene	
P. M. 1.30	*Chemistry	†Embryology	*Chemistry ȣAnatomy	*Histology ‡Hygiene ȣAnatomy	*Chemistry	ȣAnatomy
2.30	Chemistry	†Embryology	*‡Chemistry ȣAnatomy	*Histology ‡Hygiene ȣAnatomy	Chemistry	ȣAnatomy
3.30	Chemistry	†Embryology	*‡Chemistry ȣAnatomy	*Histology ‡Hygiene ȣAnatomy	Chemistry	ȣAnatomy
4.30	†Chemistry	†Embryology	‡Chemistry		†Chemistry	

* First half year.
† Second half year.
‡ Second half year except from April 7–20, 1914.
ȣ Dissecting second half year April 7—May 20, 1914.

SCHEDULE FOR SECOND YEAR

A. M.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30	*Physiology †Anatomy	‡Anatomy †Anatomy	‡Physiology †Anatomy	‡Chemistry †Anatomy	‡Anatomy †Anatomy	‡Physiology †Anatomy
9.30	*Physiology †Anatomy	‡Anatomy †Anatomy	‡Physiology †Anatomy	‡Chemistry †Anatomy	†Anatomy	‡Physiology †Anatomy
10.30	†Anatomy	†Anatomy	†Anatomy	‡Chemistry †Anatomy	†Anatomy	†Anatomy
11.30	†Anatomy	†Anatomy	†Anatomy	‡Chemistry †Anatomy	†Anatomy	†Anatomy
P. M. 1.30	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy
2 30	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy
3.30	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy
4.30	‡Pathology Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy	‡Pathology & Bacteriology †Anatomy	†Anatomy

* January—February—March.
† Dissecting—April 7—May 20, 1914.
‡ Except from April 7—May 20, 1914.

SCHEDULE FOR THIRD YEAR

All exercises are held in the School Building on Chadwick Street, unless otherwise specified.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8—9	Materia Medica	Materia Medica	Surgery	Medicine	Surgery	Surgery
9—10	Obstetrics	Medical Clinic Me. Gen. Hosp.	Gynecology	Eye and Ear Clinic Me. Gen. Hosp	Obstetrics	Obstetrics
10—11		Medical Clinic Me. Gen. Hosp.		Surgical Clinic Me. Gen. Hosp.		
11—12	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections	Dispensary Clinic Sections
12—1	Dispensary Surgery	Dispensary Medicine	Dispensary Eye and Ear	Dispensary Skin	Dispensary Nose and Throat	Dispensary G. U. Surgery
2—3		†Clin. Pathology	†Clin. Pathology			
3—4		*Public Hygiene †Clin. Pathology	†Clin. Pathology			
4—5	Materia Medica	*Public Hygiene	Med. Diagnosis City Hospital	Materia Medica	Medicine	
5—6	Materia Medica	Medicine	City Hospital	Materia Medica	Surgery	

* First half year. † After March 28. Other hours by appointment.

SCHEDULE FOR FOURTH YEAR

All exercises are held in the School Building on Chadwick Street, unless otherwise specified.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8—9	Infirmary. Clinics daily. Sections. Diseases of Eye and Ear, Nose and Throat, Nervous System.					Clinics and Lectures by special announcement. Surgery Medicine, Nervous and Mental Diseases, Pediatrics, G. U. Surgery, Medical Jurisprudence, Medical Ethics.
9—10	Surgery	Medicine Amphitheatre	Orthopedics Children's Hosp	Eye, Ear Clinic Me. Gen. Hosp.	Surgery	
10—11	Medicine	Medicine Amphitheatre	Pediatrics Children's Hosp	Surgery Amphitheatre	Medicine	
11—12	Dispensary Gynecology M. G. Hospital Sections Surgery	Dispensary Pediatrics M. G. Hospital Sections Surgery	Pharmacol. and Therapeutics	Dispensary Gyn. Ped. M. G. Hospital Sections Surgery	Pharmacol. and Therapeutics	
12—1	Dispensary Gynecology M. G. Hospital Sections Surgery	Dispensary Pediatrics M. G. Hospital Sections Surgery	Pharmacol. and Therapeutics	Dispensary Gyn. Ped. M. G. Hospital Sections Surgery	Pharmacol. and Therapeutics	
3—4	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	
4—5	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	M G Hosp Clinic Section Medicine	
5—6	Pediatrics	Neurology Children's Hosp		Surgery	Neurology Children's Hosp	